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产品名称: **Necrostatin 2 (S enantiomer)**
产品别名: **Necrostatin 2 S enantiomer**

生物活性:

Description

Necrostatin 2 S enantiomer is the S enantiomer of Necrostatin 2. Necrostatin 2 is a potent necroptosis inhibitor, acts as a RIPK1 inhibitor lacking the IDO-targeting effect. Target: RIPK1 [4] Necrostatin 2 is a potent in vitro necroptosis inhibitors (exemplified by 1, EC₅₀-0.05 uM) that also were efficacious in an animal model of ischemic stroke. Many Necroptosis inhibitor derivatives are designed for researchers. Necroptosis is a regulated caspase-independent cell death mechanism that results in morphological features resembling necrosis. It can be induced in a FADD-deficient variant of human Jurkat T cells treated with TNF- α . 5-(1H-Indol-3-ylmethyl)-2-thiohydantoins and 5-(1H-indol-3-ylmethyl)hydantoins were found to be potent necroptosis inhibitors (called necrostatins).

In Vitro:

DMSO : 50 mg/mL (180.04 mM; Need ultrasonic)

	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
Preparing	1 mM		3.6009 mL	18.0044 mL	36.0088 mL
Stock Solutions	5 mM		0.7202 mL	3.6009 mL	7.2018 mL
	10 mM		0.3601 mL	1.8004 mL	3.6009 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。

储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month. -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。

In Vivo:

请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂:

——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶

1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline

Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution

此方案可获得 ≥ 3 mg/mL (10.80 mM, 饱和度未知) 的澄清溶液。

以 1 mL 工作液为例, 取 100 μ L 30.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀; 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。

2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE- β -CD in saline)

Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution

此方案可获得 ≥ 3 mg/mL (10.80 mM, 饱和度未知) 的澄清溶液。

以 1 mL 工作液为例, 取 100 μ L 30.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 20% 的 SBE- β -CD 生理盐水水溶液中, 混合均匀。



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 3 mg/mL (10.80 mM); Clear solution 此方案可获得 ≥ 3 mg/mL (10.80 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例, 取 100 μL 30.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Teng X, Keys H, Jeevanandam A, Structure-activity relationship study of [1,2,3]thiadiazole necroptosis inhibitors. Bioorg Med Chem Lett. 2007 Dec 15;17(24):6836-40. [2]. Takahashi N, et al. Necrostatin-1 analogues: critical issues on the specificity, activity and in vivo use in experimental disease models. Cell Death Dis. 2012 Nov 29;3:e437. [3]. Jagtap PG, Degterev A, Choi S, Structure-activity relationship study of tricyclic necroptosis inhibitors. J Med Chem. 2007 Apr 19;50(8):1886-95. [4]. Teng X, Degterev A, Jagtap P, Structure-activity relationship study of novel necroptosis inhibitors. Bioorg Med Chem Lett. 2005 Nov 15;15(22):5039-44.

源叶生物